Summary of Estimated Manpower and Time Required to Fill Gaps in Economic Intelligence of the USSR as Concerns the Materials Division

<u>Pield</u>	Top Priority Gaps (expressed	Priority Gaps in Man-Months	Routi Gaps)	
Food and Agriculture, Forestry, and Fisheries	60	21	4	1 7 2 9 0
Chemicals	. 6	28	24	1180
Ferrous Metals and Minerals	282	27	18	1
Non-Ferrous Metals and Minerals	17	42	52	***
Special Commodities	35	12	8	1
Petroleum	88	50	117	*
Coal	18	19	_50	į
Totals	506 or 42 man-years	199 or 17 man-year	2 73 s 23	or man-years

Total of Top Priority plus Priority Gaps - 705 Man-Months or 59 Analysts in One Year.

Total of All Gaps - 978 Man-Months or 82 Analysts in One Year.

^{1/} It must be appreciated that the estimates made for each field were prepared by different individuals, and that the possibility of using dissimilar "measuring sticks" does exist. It is considered, however, that the totals reflect a balancing—out.

B. CHEMICALS

Exploitation of Material in Mashington					Exploitation of Material Outside of washington			
Gar	<u>e</u>	By D/M	By Others	3	By whom			
Tor	Priority	Man Months	By Vhon	Man Months	25X1X4			
1.	Explosives & Propellants (all aspects)	3 M.M. utilizing Ordnance, Air Corps, G-2, State, 50 files	G-2 A-2 CNI (Have requesing covering D/2	12 N. N. 6 M. N. 6 N. L. uested a project all bervices)				
	Carbide (all aspects)	3 M. H. utilizing IR, D/M files, Library	•		State - concerted effort to collect company literature of foreign companies showing products manufactured, etc.			
Pr	ority				(The foregoing applies to all efforts listed regardless			
1.	Location of chemical plants by area and their production	6 M. M. utilizing IR, D/L files, Library, SO	o/si Gr	6 M. M.	of classification.)			
2.	Potentialities of special projects. Rocket fuel additives, special military chemicals	6 и. к.		g on data from , ONI and O/SI				
3.	i'etrochemicals (all aspects)	4 K. L.	ù/Γ	4 M. M.	7			
4.	Sodium Cyanide (all aspects)	2 м. м.	0/81	4 M. M.				
5.	Chemical Warfare Plants	6 M. E.	O/SI Chem. C.	6 M. M. 6 M. M.				

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Exploitation of Economic Intelligence to Fill Gaps is Information on USSE Economy

A. Food and Agriculture, Forestry, and Fisheries

	Exploitation of Mate	Exploitation of Material Outside of Washington			
	Gaze	By D/ml/ Man-Months	By Others	Man-Months	By Whom
Ţ	p Priority		FOIAb3b		
1.	Yields of Field Crope	12 M-M	FDD, OFAR, US Weather Bureau		Air Weather Service. The basic work will be done by a special section of 12 personnel in the faither dimetology Division, requiring 144 man-months. The results from the ARS project can be utilized by all IAC groups for other purposes.
2.	Grain, Meat, Pats and Oils, Potatoes and Vegetables, Sugar (Production by regions)	18 N-N	Collaboration with USDA and State Department	3 M-N	Agricultural Attache, American Embassy, Moscow
3.	Industrial Timber (Production by regions)	10 M=N	Collaboration with the Foreign Economic Division of the US Forest Service	3 M=M	State Department, 25X1A8a
40	Fibers, Fish, Leather (Production by Commodities and regions)	10 M-M	Collaboration with USDA, Interior Department, Commerce Department	2 M-M	State Department,
5.	Stocks (All Commodities) Size and Location	10 M-M	Hone	None	25X1X4
1/	Diddisalam D/W 667 - 749	_	FC	DIAb3b	

Industrial Register, etc.

1/ Utilizing D/M files, Libraries for Russian and other language publications:

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Continued

Priority	(All	Commodities)	
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	AFFIT ATT COMMON TO A					
1.	Requirements: Military	3 M=M	Army, Navy, Air Force	2 N-M		25X1X4
	Civilian	4 第二號	None	None	State Department.	
2.	Excorts-Imports, by countries of destination or origin	6 M-M	D/s	4 M-M	None.	
3.	Food Processing and Textile Plants (capacity, etc.), by commodities and location	8 M-M	G R	None		25X1X4
Rou	tine (All Commodities)					
1.	Inputs and Requirements (fuel, transport, raw materials, manufacture, etc.)	4 N-M	D/S	Hone	None.	

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Foreward

- l. The Materials Division of the Office of Research and Reports is responsible for confecting basic research in the field of materials, pointing to foreign secretic intelligence affecting the rat anal security of the United States. This broad field includes patroleum, solid fuels, chemicals, ferrous and non-ferrous setals and minerals, and food and agriculture.
- 2. From an overall economic viewpoint, the capabilities of a foreign nation to endanger the national security of the United States includes the manpower, unterial, industrial, processing, and transport resources of that nation. The intentions of a foreign nation to endanger the security of the USA may be reflected in the changes in utilization of these resources. This Livision is therefore conducting research to determine within the materials field those aspects that may throw light on the economic capabilities and intentions of a foreign power.

The criteria used in the selection of specific commodities within a particular field may be found in the individual papers prepared for this study.

- 3. The main purposes of this paper are to show the serious gaps in our knowledge of materials as concerns the USSR, to give an indication of the time and manpower required to fill these gaps, to give an evaluation of the sources of information and facilities used to gather the intelligence information used, to make the estimates, and to provide such recommendations as to obtain optimum intelligence results in the shortest period of time.
- 4. The first part of this paper shows the gaps within our knowledge of the Soviet materials position for the following broad fields:

Food and Agriculture, Forestry and Figureracs Chemicals Ferrous Metals and Linerals Non-Ferrous Metals and Linerals Special Commodities Petroleum Coal.

The gaps were davided into three parts to indicate the relative importance of all the gaps noted by the Division:

Top Pricrity Priority Routine

In addition, estimates were made of the tire and manpower required by D/M to exploit the information known to be in Massington. These were expressed in terms of man-months. Also, indications were made where supporting efforts could be made by other units within CI and in other Agencies. For exploitation of sconomic information outside of Washington, the Division noted the agency capable of support.

5. The second part of this paper gives each Branch's evaluation of the "sources" of information and "facilities" used to assemble the economic intelligence required to make emplicates.

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Conclusions

- 1. It is premature to make certain recommendations that relate to the time and effort that this Division should put in to eliminate the most important gaps within our knowledge of the USSR, without consideration of allocation of time and manpower required for other areas, such as the European Satellites, the Far East, the Near East, Western Europe, et cetera. This study should be used only as a guide to our most important problem the USSR and broad allocations made somewhat arbitrarily as to the effort to be put on the USSR as well as the other areas.
- 2. There is one serious gap not covered in the individual Branch papers the economic aspects of the Soviet Atomic energy program. This field is one of the greatest unknowns in our intelligence information. Since the political, military and economic policies of the USA are subject to considerable change because of the Soviet's atomic strength, it is considered that sufficient research should be made by ORE into the economic aspects of the program. It is recognized that OSI had assumed the total responsibility for the Soviet atomic energy program and required only such support from ORR as OSI considered necessary. However, such support is sporadic and fragmentary, given a low priority because of its informal nature, subject to inconsistencies, and without correct relationship one phase to another. It is the contention of this Division that intelligence research on a program of such high priority and security classification (from the Soviet viewpoint) as the USSR atomic energy program should be made on as broad a plane as possible, utilizing to the fullest the resources of both OSI and ORR, with the highest order of cooperation between both.

Specifically, ORR should have the opportunity to conduct intelligence research in and estimate (a) the specific and total effects of the USSR's atomic energy program on the economy of the area, and (b) the capabilities of the USSR to provide the financial, material, transport, fuel and power, machinery and equipment, and, management and manpower resources to an atomic energy program, as well as to other economic-industrial programs.

It was therefore proposed that ORR set up a special Branch for the purpose of focusing ORR's interests and activities in the nuclear energy field in one place. This Branch was to draw upon the resources of all other Branches of ORR for intelligence support and in turn to be the first point of support to OSI. At the present time, OSI is objecting to the need for ORR to conduct intelligence research on the economic-industrial aspects of the Soviet Orbit atomic energy program. The matter is under consideration by the AD/RR and will be a matter of negotiation with the AD/SI.

It is estimated that the total number of man-months required to exploit information in Washington in an attempt to fill the important gaps in the field would be roughly in the order of 100 man-months (or 8 analysts in one year) throughout all of ORR.

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COMMODITY STUDIES

List A includes important commodities studied at this time.

List B includes important commodities not studied at this time because of time and manpower limitations.

List C includes those commodities not considered important at this time from an intelligence viewpoint.

List A

List B

List C

Tars and road oils

Miscellaneous light oils

Liquified petroleum gas

Petroleum Products

Crude oil Aviation gasoline

Diesel
Jet fuel
Motor gasoline

Kerosene Fuel oil

Residual oils Greases Natural Gas

Aviation and motor oils

Coke

Solid Fuels

Anthracite coal Bituminous coal Lignite

Peat Firewood Brown coal

Ferrous Metals and Minerals

Iron ore Nickel Molybdenum

Iron and steel plants a/ Electric furnaces a/ Metallurgical coal and coke

Iron and steel scrap

Chromite Tungsten Vanadium Hanganese

Fluxes and Refractories

Non-Ferrous Metals and Minerals Non-Ferrous Metals

Copper

Lead Tin Antimony Zinc Diamonds Aluminum Cobalt Mercury Graphite

Cadmium

Magnesium
Arsenic
Beryllium
Columbium
Tantalum
Tellurium
Thallium
Titanium
Zirconium
Bismuth

Quartz crystals

Monazite Thorium Uranium minerals

Asbestos Cement

Fluorspar
Gypsum
Lime
Limestone
Phosphates
Nitrates
Potash
Pyrites
Salt
Sulfur

Non-Metallic Minerals

Alum Barite Boron

Boron
Bromine
Corundum
Cryolite
Dolomite
Emery
Feldspar
Granite
Iodine
Kyanite
Magnesite

a/ Industry studies

Marble Sandstone

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Bricks and clay

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List A

List B

List C

Non-Metallic Minerals (Cont'd)

Silicon Slate Soda Talc Vermiculite

Special Commodities

Barium Caesium Calcium Cerium and other rare earth metals Gallium Gold Hafnium Iridium Lithium minerals Spodumene Amblygonite Lepidolite Osmium Palladium Platinum Potassium iladium Rhodium Rubidium Rutherdum Silver Sodium Strontium minerals Calestite Strontianite

Chericals

Ammonia litric acid Chlorine Caustic soda Joda ash Sulfuric acid Coke chemicals Benzol Phenol Toluol Dt.c. Rubbers Synthetic Matural Explosives - Propellants C.rbon blacks Bulfur and pyrites Metallic sodium Hethyl alcohol Formaldehyde Rubber chemicals Hydrogen peroxide Sodium cyanide CW & BW Production and Basic chemicals Potassium chlorate Freons Rayon and nylon for tire cord

Synthetic fiber Raw materials for synthe- Pesticides tic fibers Calcium carbide Chemical equipment Phosphorus Tetraethyl lead Petro-chemicals Acetylene chemicals Clycerine - Glycols locket fuels, solid and liquid Petroleum additives Electrodes Special containers - for Ethyl alcohol chemicals, both mobile Fertilizers and portable

Anti-biotics, sulfa drugs Synthetic resins and raw Rubber fabricating plants a/ materials for plastics and sonthetic libers Paints, wirnishes and lacquers lost pharmaceuticals Naval Stores Pigments and dyes Oils and Fats, incustrial Pulp and paper Glass Lime Soaps and Detergents Nitrogenous Phosphate Cellulose (purified) Plastics Plasticizers for: Rubber Plastics Explosives Solid rocket fuels Silver (sheets), silverlined equipment required for special chemical purposes

List A

List B

List C

Agricultural Products

Food and Feed grains Fats and oils Potatoes and Vegetables Sugar Vegetable fiber Cotton Flax Livestock and poultry products eat Hides and leather Wool Forest Products Lumber Pit props Railroad ties Pulpwood and paper Other industrial timber products Fish Hard Fibers and Hemp Synthetic fibers

Forage crops Vegetable oils Kapok Corn Coconut Cacao Olive Palm Poppy Oiticica Miscellaneous cils Vegetable fibers Jute Sisal Henequen Abaca Rami.e Silk Rubber Plants Kok-saghyz Tau-saghyz Guayule Vatochnik Eukommia Casein Dairy Products Milk Cheese Agricultural Fachinery and equipment Mohair Eggs Cork

Bristles Condiments Beverages Tobacco Akhorka Feathers and Down

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Priority (continued)

		By D/M	By Other	<u>e</u>
		kan konths	Byhom	Man Months
6.	Special containers for chemicals; mobils and portable	4 M. H.	D/S	4 M. H.
Rou	tine			
1.	Chemicals in List A of Commodity Studies, all of which are of equal importance	24 M. M. utilizing all available facilities including examination of German documents and foreign journals	0/51 FDD	12 M. H. 12 H. M.

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C. Ferrous Metals and Minerals

Exploitation of Material in Washington

Gaps

Top Priority:

1. Production of Iron Ore, including iron ore reserves

By D/H

Han-Months

ial used in basic report & exploring new information. Then on Continuing basis.

By Others

By Whom

3 M-M. Reviewing mater- FDB - Set up Task Forces to review and translate pertinent Information evailable in foreign language publ. throughout city. Bureau of Mines.

D/Z

2. Production of Metal- 3 M-M. Reviewing mater- FDB - See 1. above coal (location and

capacity)

dium, etc.

lurgical Coke and Char-ial used in basic report Bureau of Manes and exploring new infor- D/Z. mation. Then on continuing basis.

Supply of Iron and Steel Current. 3. Scrap.

FDB - Current. Little historical information of value. D/Z D/S

90 Media to complete Production of Ferro-A lloys, including Re- basic research. Then serves, languages, on continuing basis. chromite, molybdenum, nickel, tungsten, vana-

FDB - See 1. above. Bureau of Mines. D/Z

Exploitation of Material Outside of Washington

By Whom

All collection agencies in field to locate pertinent information in depositories abroad, including those in foreign languages to obtain background material which does not change with elapse of time.

25X1X4

25X1X4

See 1. above

US Embassy, Moscow. A 11 reports on scrap collections within the USSR. All collection agencies. For shipments of scrap thru key transportation points. State Department. Trade agreements. Reports on scrap shipments.
Trade agreements. Reports of scrap shipments.

25X1A8

See 1. above

	Exploits	tion of Naterial in Washing	rton	Thu # 144 A	
	Caps	By D/L	By Others	Emloitation of Esterial Outside of Washington	
Top Priority		Lan-Bonths	By Whom	By Whom	
	 Plant study of Op Hearth Furnaces. 	en) 180 M-M. To accomplis) basic research.		See 1. above	
	6. Plant study of Electric Furnaces	}	Bureau of Lines D/Z GR		
	 Consumption of Rai Special Steels, & finished steel pre 	Seed -	FDB Bureau of Lines D/Z	A 11 Collection Agencies	¢
1	 Eilitary Requirements for semi-finished steel products 	onts iv.A.	Dept. of Defense		
1	Priority:				٠
	L. Exports and Import of Iron Ore.	в 3 и-и	FDB - On continuing basis Sureau of Lines. OIT, Commerce Dept. D/Z	State Dept. Trade Agreements	ı
2	Analyses of Iron Of from each Deposit	res 3 N-M and	FDB - See 1. above Bureau of Hines D/Z Sovmat. (?)		25X1X4
3.	• Consumption of Iron Ore	3 M-M To review naterial used in basic report and to explore new infor- nation,	FDB Bureau of Mines D/Z 00		

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	Exploitation	of Material in Washington) 1	Exploitation of Material Outside of Washington			
Gar)	By D/U	By Others	By Whom			
Pri	ority	Lan-Honths	By Whom	25X1A8a			
4.	Trade in Ferro-Alloys	Continuing and current study of D/H	Continuing and current study of D/S FDB OIT, Dept of Commorce Dureau of Lines D/Z	State Dept. Trade agreements and reports of actual shipments. All Collection Agencies. Reports of shipments thru key transportation points. 25X1A8a			
5.	Plant Study of Blast Furnaces.	12 li-li. To review material used in basic study & to exploit new information	FDB. See 1. above in Top Priority. GR	Soe 1. above. Top Priority.			
6.	Use of Substitutes for Ferro-Alloys in short Supply.	3 11-11	FDB. Continuing study Dureau of Hines. D/Z	All Collection Agencies.			
7.	Practices in mfg. and use of Special Steels	3 LI-LI	FDB Bureau of Mines	All Collection Agencies.			
Rot	tine						
1.	Production Facilities at Individual Lines, Smelters, & Concentrating Plants, for all ferrous Letals.		FDB - see 1. above Top Priority Eureau of Hines D/Z	See 1, above, Top Priority			
2.	Production Facilities of individual Coke Flants	3 L-M. To review material used in basic study and exploit new infor- mation	FDB - see 1. above, Top Priority Sureau of Hines D/Z	See 1. alowe, Top Priority.			

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		• • •				
	Exploitation	of Laterial in Washingt	on_	Box 3.44 to		
Ge	DS	By D/L	By Others	Exploitation of Material Outside of Washington Dy Whom		
Ro	utine:	Lian-lionths	By Whom	EY WIDE		
3,	Technological Rosearch in Iron and Steel Industry.	3 м-ш	FDB O/SI Bureau of Hines D/Z	All collection Agencies		
4.	Production of pig iron, raw steel, special steels and send-finished steel products, by regions.	Continuing study	FDB - Bureau of Mines. Both on continuing basis. ECA - Has some information and estimates. D/Z	All Collection Agencies. On a continuing basis, ECA, May have some valuable material in offices abroad.		

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D. Non-Ferrous Letels and Minerals

	Exploitation	n of Material in Wash	ington		Exploitati	on of Lat	erial Cut	side of W	ashingto	ם
Gans	By D/L		By Others		By Whom					
Top Priority	Covering Commodities	Men Months Utilizing	By hom	Men Months					To require a state of the state	
1. Stocks, size and location	List I	2 D/M files, IR, USAF, ports, Library, I.M.C. & other Gover	-2 5X1A2g							25X1X4
2. Require ent	s List I:	5 Military: r Civilian: 1 25X1A2g Library, I. & other Gor ment Legenci	IR, Mavy, air ForceC. vern- State &	25X1A8a	17 17	יה זי	11 11		95 T	n
3. Production	L i s t II	10 D/M, IR, U25X1A2gLibrary, Reports, I. & other Government Agencia	D/Z & St. .A.C. vern-	25X1A8a Ga te	а п п	1 11	n n	n 11	79 T	"

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			Non-Ferrous (atorial	cutside of	Washingto
and the same		of Laterial in was	By Others	. A second of	Byhom				- "
1196	Dy D/15	то резыстрення от том полительного поставления в полительного поставления в под поставления в поставления в по	DA OGRAFIA	CALLES RECORDED 1 - LA MANGRADA ANTON A CONTRIBUTA DE LES		nanadanadahan sancah sa sasar	e a ser consideration and consideration	on l'eranne annunamentalistica di manca anaderia nacusamentenna	intentración de la construcción de construcció
Top Priority	Covering Commodities	Man Conths Utilizing	By Thom	Months	Company of the Control of the Contro				
Friority			25X1A8a			ter in a		the state of the state of	25X1X4
1. Production	List I loss	12 D/H, In, OLAP, Library,	and Ltate						
hidranostone value :		perts. . stier G	overn-	on to a sold Market of Industrial Sold Market Sold Market Sold Market Sold Market Sold Market	in a second				
The graph of the control of the cont		Control of the Contro	25X1A8a						
2. Flant Facilities		25X1A2glbrary, 25X1A2glbrary, Reports, cother G	D/L 1 C	tate	minager and a second of the se	11	# . # # # # # # # # # # # # # # # # # #	THE NO.	ti i
		ment gen	ciss						
NUMETING		Carlo Charlester Control of the Carlo Charlester	25X1A8a	Copy of the Brook State of the	Appendix of the state of the st	PROMPT-	on a superpopular approximation of	-man converge realization converges and or of the converges and th	The second secon
l. Garacer, Franc-		25X1A2g	and sta	• • • • • • • • • • • • • • • • • • • •				Anny agent	
Clos. Surres	nts	Govern Sin					ot and the second secon		Colores - Just a control

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List #I#	Adat #III	List "HIJ"
Aluminum Antimony Arsenic Beryllium Cadmium Cobelt Columbium Copper Lead Magnesium Mercury Tantalum Tellurium Thallium Tin Titanium Zinc Zirconium	Arsenic Beryllium Columbium Magnesium Tantalum Tellurium Thallium Titenium Zirconium	Alum Boron Bromine Iodine Salt Soda Cement Gypsum Lime Lime Limestone Corundum Emery Kyanite Nitrates Phosphates Potash

Graphite Mica Quartz Crystals

Asbestos

Fluorspar Sulphur & Pyrites

Barite Dolomite Feldspar Granite Marble Sandstone Slate Tale Brick and Clays

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F.xc	oloitation of Materia	al in Weshington			Exploitation of Material Outside of Washing	ton
Gaos Too Priority	By D/M Covering Man Commodities Months	Utilizing	By Others By Whom	Man Months	By Whom	-
 Total requirements, consumntion, stocks and location 		IR, Library, D/M files, Reports, State IAC and other 25X1A Government Agencies	D/Z, D/I D/S O/SI Army Navy A2Gir Force			25X1X4
2. Production including location of wrocessing plants	All commodities except industrial diamonds and platinum 20		я		•	(
Priority						
 Imports, exports, substitutes and external sources 	All commodities 12	u	n		•	
Routine						(
1. Mannower, fuel nower, and trans- nort tion.	All commodities 8	•	Ħ			•

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STORES

SPECIAL COMMODITIES

Caesium
Calcium
Cerium and other rare earth metals
Gallium
Gold
Silver
Hafnium
Lithium minerals
Platinum group minerals
Radium
Strontium minerals
Uranium minerals; Thorium, Monazite
Industrial Diamonds

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	· ·		F. PUTTLLUI		
Gaps		Exploitation of La	terial in Washi	ngton	Exploitation of Material Outside Washington
		By D/11	By Others		By Whom
		Man Months	By Whom	in Months	and the second second
Tor	Priority				
1.	Production of Crude				
	Production by regions	3	n/z	2	25X1A8a
	Quality by regions	3	Bureau of Lines	1	
	Brilling equipment and materials	2	D/Z D/S	1	
	Flow pattern of crude	6	2/2	ż	
2.	Refining			~	
	Specific compositions and capacity of plant fecilities	6	v/z, gr	3	
	Location of plants completed after 1948	6	D/z, GR	3	
	Production schedules	6	D/Z	3	
	Synthetic plant location and capacity	3	D/Z, GR	3	
	rigin of charge stock	6	D/Z	3	

			21.01.2	T	
	<u>Gaps</u> App	roved For Release 1999	/09/07 : CIA-	RDP75-00662	R000200160012-3 Exploitation of Material Cutside Washington
		By D/11	By Otlers		By When
3,	Distribution .	Man Months	By Whom	Man Months	
	Military requirements by product, by area of consumption	3	!ilitary D/Z	3 1	
	Total civil requirements	3			
	Area requirements	6	D/Z	3	25X1A8a
	Specific routes	2	D/Z D/S	1 1	
	Packaging	6	D/Z	3	
	Quantity of stocks by product	12	D/2	6	
	Storage locations, capacities, and types	6	D/Z	3	
4.	Technology				
	New refinery processes	6			
	Product quality requirements of military equipment	3	D/Z	1	
Pric	ority				
1,	Production				
	Reserves	2	Bureau of Lines	1	
	Exploration program	3	D/Z	2	

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Exploitation of 'aterial in Washington					Deploitation of Material of the man
	<u> </u>	y <u>D/11</u>	By Others		Exploitation of Material Outside Washington
•		ian Lionths	By Whom	Man Months	By Whom
2.	Refining				
	Input requirements of major items	12			25X1A8a
3.	Distribution		D/Z	6	
	Civil requirements by consuming				
	groups	3	D/Z	1	
	Mandling facilities	6	D/S D/Z	2	
	Imports_imports	3	D/2	1	
			D/s	i	
	Acquisition of critical items from outside sources	6	D/Z D/S	3 1	
4.	Technology		ು/s	1 .	
	Exploration and drilling technicues	3	ost D/z	2 1	
	Product quality requirements of		,-	-	
	orati schibmont	3	D/2	ı	
	Application problems	3	D/Z	3	
	Instrumentation	6	D/Z		
			D/I	3 2	

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Gaps	Exploitation of 1	aterial in Washington	Exploitation of Material Outside Washington
	By D/C	By Others	By Whom
	Ean Einths	By Whom Man Month	
Routine			
1. Production of Grude			25X1A8a
Production by field	12	D/Z 6 Bureau of	
0		llims 3	
Quality by field	12	D/Z 6 Burezu of	
		Uines 3	
Producing well characteristics	12	Bure u of H	
Geological characteristics of major fields	6	Gureau of	
Labor force	3	D/S 1	
2. defining			
Operating procedures	12	D/Z 6	
State of repair of equipment and plant efficiency	12	D/Z 6	
Flow charts	12	D/2 6	
Labor force	3	D/S 1	
3. Distribution			
Civil re uirements by products	6	D/Z 3	

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Gaps	imploitation of	of Material in Washinston	Exploitation of Material Outside Washington
	By D/H	By Others	By Whom
	Man Months	By whom Han Hont	<u>hs</u>
3. Technology			
Sasic research	12	051 3	25X1A8a
Training programs	3	D/S 1 OSI 1 D/Z 1	
Technical specialities and utilization of Satellite pe removed to the USSR	ersonnel 12	OSI 3 Siographic Register 3	

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Caps		Exploitation of Material in Washington			Exploitation of Material Cutside Washington	
		By D/Y	By Others		By Whom	
		Man Months	By Whom	Man Months		
Top Priority						
1. Production						
Output of col	king coal by basins	6	D/Z	2		
Sources of m (plant studie	ining equipment es)	3	D/Z D/I	2 2		25X1X4
2. Distribution						•
Civil require industry and	ments for total transportation	3	D/Z D/S D/I	2 1 1		
Requirements	by area	3	D/Z D/S D/I	2 1 1		
3. Utilization					25V1A9a	
Input require production of	ments per unit of industrial items	3	Bureau of	1	25X1A8a	(

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Gaps		Exploitation	of Material in Wash	ington	Exploitation of Material Outside Washington
		By D/M	By Others		By Whom
		Man Months	By Whom	Han Lionths	
Pric	rity				
1.	Production				25X1A8a
	Labor conditions	3	D/Z	1	
	Mechanization	3	D/I	1	
	Input requirements for electric power by basins	3	D/S D/Z	2 1	
2.	Distribution				
	Imports	1	D/S D/Z	1	
	Specific routes of distribution	1	D/S D/Z	1	
3.	Stocks				
	Total quantity in key industrial centers	6	D/Z	3	
	Quantity of metallurgical coke at industrial plants	2	p/z	3	

	App Gaps	roved For Release 199 Exploitation of Mat		PRO00200160012-3 Exploitation of Naterial Outside Washington	
		By D/Ľ	By Others		By Whom
		Man Months	By Whom	Yan Months	
Rot	tine				
1.	Production				
	Production by major fields and mines	12	5/z	3	
	Reserves	2	Bureau of Mines	1	
	Input requirements for mining equipment	3	Sureau of Mines	1	25X1A8a
	Size of labor force	6	D/Z D/S	2 2	
2.	Preparation				
	Coal washing and handling facilities	3			
	Briquetting plants	3	D/Z	2	
3.	Distribution				
	Requirements by branches of indust	ryl2	D/Z D/I	3 3	
4.	Stocks				
	At mines	. 6	D/Z	3	
	Analysis of coal by major fields and mines	3	Bureau of lines	ı	

S : C R il T

SOURCES AND FIGURALS

A. Food and Agriculture, Forestry, and Fisheries.

Sources of information utilized are as follows:

a-1. The SEATE DEPARTED provides the greatest quantity and the best quality of intelligence information, primarily from the American imbassy, Hoscov, and secondarily from its not of foreign economic reports from other miscions.

The Agricultural Attache Office, American Lubassy, Hoscow, supplies, in addition to its regular reporting service covering the agricultural industry, full translations of pertinent agricultural and weather information appearing in the Hoscow and provincial newspapers available to the Embassy. This service is invaluable as a basic source in this critical area.

There is a close cooperation between the agricultural section of the State Department and the Food and Agriculture Branch of C/RR in arriving at estimates of acreage, yield and production of the field crops, as well as livestock products of the USSR.

- a=2. The CFFIC: OF FORTING ACCIDINAL RELATIONS, Department of Agriculture, complements and supplements the estimates made by CIA. The Food and Agriculture Branch relies heavily on the published and unpublished analyses of this non-JAC agency in producing estimates on food and fiber production in the USSA. There is a close coordination with OFAR in arriving at the necessary estimates for the USSA and the various Soviet Orbit countries.
- a-3. The HDUSTRIAL RECISTER, which is a depository of economic information pertaining to the location and production of processing plants that utilize agricultural, fisheries, and forestry raw materials, is a primary source of valuable information.
- a-4. B/G MAP LHERARY is an indispensable instrument in the analysis of intelligence pertaining to food and agriculture. Very phase of production of the products of field crops, livestock, forestry, and fisheries is definitely associated with specific geographic locations.

The best potential sources of basic materials necessary for research activities that require increased exploitation are:

- belo The LHEMARI'S of the IAC agencies, of Congress, and Agriculture, the periodical publications of the USSE pertaining to the Food Industry, The Leat and Dairy Industry, the Cotton Industry, etc., as well as statistical and other treatises covering all phases of the food and agricultural branches of the Soviet economy, are programt with information required to fill many of the gaps in our present knowledge of the USSE,
- b-2a The LILITARY CLIVATCHOGICAL DIVISION, Air Veather Service, which has provided basic weather data necessary in making yield estimates of important crops, is indispensable to the work of the Dranch and should be increasingly exploited.
- b-3. THE FOLGET SERVICE, RESEARCH DIVISION, has been contributing to the forestry section of the various HIS studies and has provided consultant service on the economic and technical a spects of the forestry industry of the USER. Their files should be further exploited.
- b-4. The WHD LIFE AND FISHERES RESEARCH DIVISION, Department of Interior, has been contributing to the fisheries section of the various NES studies and has provided consultant service on the economic and technical aspects of fisheries of the USSR. Their files should be further exploited.
- b-5. The files of the DEPARTIENT OF COLLEGE, which contain valuable information regarding textiles and other commercial products together with sources of the pertinent raw materials and the quantities entering international trade, should be increasingly exploited.
- b-6. FDD FILES contain valuable sources of information that have not as yet been fully exploited 1999/09/07: CIA-RDP75-00662R000200160012-3

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25X1X7 b-7. AND TRANSLATIONS OF RUSSIAN DOCUMENTS have been found of great value but have not been fully exploited.

Among the sources of lesser importance are:

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- c-2. DEPARTIENT OF DEFENCE. The attache reports of the Army, Mavy, and Air Force as well as the reports of their Intelligence Divisions provide incidental information on the USSR ranging from a specific to a general nature. Such information infrequently gives a clus to situations of interest to the Branch.
- c-3. NATIONAL INTILLIGIBLE SURVINS. These basic studies only occasionally provide information on the economic structure of the USSR and the Soviet Orbit countries.

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- 25X1X/ c=6. UID FRIEND INTELLIGENCE REPORTS seldom contain food and agricultural information that is as well based as similar reports from American agencies. These reports have seldom been of more than incidental interest to
 - c-7. U.S. ECONOMIC FUBLICATIONS AND PRIODICALS sometimes give leads or clues that may be useful, but as a rule the information given is available in other sources listed in the g and b groups.
 - c-6. RIR (Biographical Register) is of secondary significance in the analysis of intelligence pertaining to food and agriculture. The Branch makes only infrequent use of this facility.
 - o-9. CRAPHICS REGISTER has not as yet been exploited by the Food and Agriculture Branch.
 - d-l. The Food and Agriculture Branch has not as yet exploited PERSONAL CONSULTANTS outside of IAC or other Government agencies. A list of persons desired as consultants is being submitted for security clearance.
 - d=2. No SPECIFIC PROJECTS have as yet been farmed-out to individuals or organizations outside IAC or other Government agencies.
- e. The SHORTCCHINGS of each source and facility vary considerably in certain features, but all have a tendancy to report information with a bias or from a certain point of view. For example, the Office of Foreign Agricultural Relations reports from the view point of the American farmer, the State Department from the political point of view, etc.
 - 1) The THE it takes to exploit sources and facilities varies from an hour or more to obtain information from the Department of Interior to weeks expended in research in libraries.
 - 2) RELIABILITY also differs widely from questionable information given by defectors to concise statements made in the Industrial Register.

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a) In evaluating the importance and/or validity of information received by the Food and Agriculture Branch a cross check is always made. This checking is accomplished by atilizing a combination of two or more of the a, b, c sources of information.

The depository of this checking material may be in the files of the Branch or in those of other agencies.

If the information cannot be tested by use of these regular sources, specific requests may be made of the Office of Collection and Dissemination in order to top outside sources for check data.

- 3) The ENT IN OF HEURIMITON given by any source is as a rule scrappy, although often apparently specific. The Branch does not decept any statement as "COMPRES ESTATE and challenges with rigid skepticism any so called authority.
- 4) When dealing with the Soviet Union, "timeliness" has a very elastic significance. Data when seemingly specific and apparaintly comprehensive pertains either to a period long passed by or far in the future. It is the job of the analyst to assemble gig-car-like pieces of hints at information into a pattern vaguely resubling a picture seen "through a glass daridy" which he must date himself. And then, in the hope that he is guided by the grace of God, he must evaluate the range through which it fluctuates above and below the possible fact.

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B. CHEMICALS

- 1. The analysis of the chemicals that follow is based upon large numbers of reports sent in by all of the IAC and prisoners of war, by defectors, refugees and American and industrial 25×6A companies. They have been carefully examined and the information evaluated on a broad basis, based upon experience. However, we have found that the best information to estimate plant capabilities, which is of major importance to us, has been derived from American companies which have supplied technical information, installed plants or have had engineers in the Orbit Areas. Vast quantities of information are still available from these domestic sources if they are tapped and if the companies are given time to munt up the old information in their files and in the heads of the engineers and other individuals who contacted the Russians.
- 2. This information can be obtained by the various offices of the 1f 25X1A8a they are properly staffed with qualified engineers. This Office can gride the Offices as to the companies to be seen and in many cases the individuals to be contacted. We have found from experience that the Companies and the individuals are more than willing to supply this Office with any information that they have for whatever use we wish. However, the Chemical Industry is a very closely knit group, and as an industry they closely watch their international competitors. They are willing to supply this information only through qualified persons to groups in whom they have confidence. This information, much of which cannot be published, can be obtained from industry with a very limited staff as 90% of the chemical information is available in most of the balance. Therefore, one qualified man working permanently in the New York District. Pittsburg, Niapara Falls and Wilmington can obtain New York Office and two men operating from this Office through the various offices can adequately cover the chemical and chemical equipment industries.

 This will require a total of 3 men for chemical industrial contact.
 - 3. Information supplied by the Embassies has, on the whole, been exceedingly unsatisfactory to this Branch. Nost of the collections of interest to us have been made by the various Attaches of the military establishments. These Attaches, by direction, are not supposed to cover civilian industrial companies in the countries to which they are assigned. They are limited to the governmental installations. The State Department Foreign Service has sent in a limited number of excellent commodity reports, and in certain cases we have requested a follow up for additional data and studies on related products.
 - 25X1A8a 4. The reports covering the European Satellites have been good and in some cases excellent. However, the information from the USSR proper and Far East has been poor from a quantitative standpoint. As yet, they have been unable to supply us with follow-up information on inquiries based on their reports. They have also sent over the excellent reports collected by

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inadequate due to the necessity of filling in forms rather than supplying information. We have had repeated conferences with representatives of G-2 and with their travellers who have returned from foreign assignments and have endeavored to have the originals of the interrogations sent back for us to adequately exploit. We have offered to translate these documents ourselves as we feel and know that the information compiled in the finished reports is a very small portion of that supplied by the FWs and DFs. This is largely due to untrained interrogators to cover the chemical field. We have spent much time and energy in trying to get up an adequate questionnaire or guide sheet to supply these interrogators. We have seen reports which definitely state that industrial information has been left out as the report only covered scientific and technical information, also reports where definite figures have been left out of the report which we feel certain must have been inserted in

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the originals. We have complained repeatedly of the collections guide put out by ID, and we understand that this has been taken up through higher authorities, but there is no evidence that anything has been done about it.

- 6. This situation has been partially corrected by They have 25X1A8a sent a qualified team to Europe and are sending back some excellent reports. This Office should send a similar team to cover the industrial side. This has been partially covered by a group sent over by but it is our belief 25X1A8a that the personnel were not selected to cover the industrial aspects. This Branch will be glad to supply qualified personnel, on a rotating basis, as
- 7. A-2, through their Wringer reports, have supplied much excellent information. However, again these reports exhibit glaring instances of complete failure to conduct logical follow through in questioning and examining sources on technical and industrial subjects. A-2 has cooperated with us fully and through their efforts we have been able to obtain information of mutual interest.
- 8. ONI has supplied a limited number of reports of interest to us, but only on subjects of special interest to them, such as hydrogen perceide and a few rubber products. They, basically, are not interested in the chemicals aspect, and most of the reports are of a highly scientific, rather than industrial, nature.
- 9. We have had no contact with the collecting agencies of the State Department, and any requirements have been sent to them through our normal. channels.

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- 10. Much information is available in our own Industrial Register which has not been adequately exploited by this Branch. These reports are the large number of microfilms sent over, but they must be examined by special equipment in the Industrial Register and cannot be quickly scanned and irrelevant material thrown out. Every film must be completely scanned. and the percentage of material, per role, of interest to this Branch is negligible. The limit have sent over a large number of excellent reports called . (These have been collected and sent over as .). These 25X1A2g are excellent and full reports, much better than the type sent in by G-2, as the do not follow a set form in making up their reports. They are long and detailed and cover every phase that the interrogatee may have covered. These have not been adequately covered by this Branch due to the fact that there is only one copy of the report and IR will not allow them to be taken from their files. It is impossible for our analysts to properly exploit these without having their own files for reference at the same time. We would like to get 2 college graduates, well-trained in chemicals, who can 25X1X7 scan the and microfilm reports and abstract or call the individual report to the attention of the interested analyst.
 - 11. The greatest weakness to us in the IR operation is the fact that there is no "product" classification. Under the present set-up it is necessary for us to examine individual plant files rather than being able to call for the individual product files for a country. We understand that the IR plans to set up a product index, but as yet has been unable to get proper personnel.
 - 12. We have offered to assist them and the Library in properly indexing their materials to cover the large musber of products in which we are interested. However, the Mibrary, Industrial Register and the Special Division all use different indexes which make it an exceedingly difficult proposition. This seems to us to be a totally inadequate, winecessary waste of time. In addition to the 3 types of indexes used, as mentioned above, we have the standard Government BID System which is an impossible proposition to

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handle in covering the Charical Industry. In order to code the documents properly for the 3 Service Divisions which should handle the commodity clausifications, this Branch will require 2 additional college graduates who can mark the codes on the documents after they are marked by the analysis.

- has collected a large amount of excellent data; however, the requirement for protection of the source has been greatly everdone. In many cases this Pranch knows that certain companies of the Chemical Industry have supplied data to the Orbit countries. Also the travellers of these companies. who are constantly covering surope in the interest of the company, report to their home offices in detail on the people they have seen, the comprosies and plants they have contacted, etc. However, it is impossible for us to call 25X1A8afor the reports collected by the call on these individual companies. We feel that this can be easily corrected because we know from experience with the chemical companies that they are willing to let this Branch have any and all information in their files that we require. Therefore, if will 25X1A8a appoint one representative from each Branch of this Division to ask for the complete reports or the names of the authors of these reports, it will greatly simplify the acids activities of this Branch and will also greatly improve the evaluations that we make up and the reports that we turn out.
 The request for requirements given us by see also difficult to fulfill 25X1A8a as the interest of the contact is carefully hidden in the form sent to us. Unless we know the field covered by the individual Corpany and the interest of the specific Contact, there is no way for us to make up proper questions for them to ensure. This can be easily clarified by "clearing" one man in each Branch as above suggested. We also suggest that the bravelless be requested to come to Washington more often for interrogation by inversely 25X1A8arcpresentatives of this Branch, of and all other interested components of the LAC Agencies because round-table discussion covers an infinite manage of points that no one individual can think of. Incidentally, none of this data is ever obtained by sending an unqualified contact men to get 25 information from a highly technical, industrial, chemical engineer. We recommend that either a highly qualified stendaype operator or a good tape recorder be available in 0/33 to record every one of such interrogations, contact men to get 25X1A8a
 - The non-TAC Government Agencies have in their files much information concerning foreign industrial operations. OCI has been most cooperative in fulfilling requirements submitted by this Branch for such information. However, the volume of information in these non-TAC Agencies is so great and of such makeous character that we can adequately use any new employee in emploiting this material during the period of security investigation.
 - 15. The relationships of this Branch with FDD have always been pleasant but not necessarily satisfactory. Such information comes in through in foreign documents, publications, etc. The priority for translation of chemical information in FDD is exceedingly low and we believe that we are 25X1A8a the only industry group who does not have some personnel assigned to their particular needs. Luch of the date that is sent to them does not require complete translation, and we have repeatedly offered to go over this information with theday translators and mark the date that we want translated, abstracted or forgotten. This would have a transmious amount of time for them and would greatly improve and expedice the information that they are sending us. Fill has a tendency to translate long-winded, highly technical subjects which are composed in most part of formulas and calculations. Due to substantive nature of the contents, it must consume usny hours of a competent translator. While this work is being undertaken, most worthwhile, wanted material is not being translated. Some of these translated enticles might be used by one person in 1,000, but only on a university basis and not by economic intelligence personnel.

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0/RR is not alone in this evaluation, since this subject has been discussed and they rate these translations as of "no value." Much of the material has been "lifted" from US technical publications. In order to eliminate the translation of unwanted documents, the Chemicals Branch has sent a chemical guide to FDD which we hope will clarify this matter. References are continually being received in this Office from or other 25×1×7 Agencies to foreign periodicals containing excellent information on production of chemicals in the USSR and Satellite countries. Unless these translations are specifically requested of FDD, they are never received. This indicates a weakness with respect to collection of foreign periodicals and/or a weakness with respect to FDD's exploitation of these documents. We expect to overcome these difficulties as soon as our analyzers with language experience are on our own staff, and we will then soon the documents ourselves and leave the basic translations to be made by FDD.

of the material is the lack of master plant cards of evaluated information. No suggestion is offered as to how these master cards should be accomplished, but somehow they should be prepared, not only for CIA's use, but for the use of all the other intelligence agencies IR services.

- b. Diographic Intelligence Register. Ferrous Netallurgy Dranch has used BIR on not more than a dozen occasions. Service on spot requests has been prompt and efficient. On requests for full biographic reports, the service has also been prompt and efficient, but coverage on industrial personalities is not as complete now as it will be at a later date. On scientists connected with the development of the ferrous metallurgy in the USSR more biographic material is available.
- c. Library. The library service is prompt and efficient in general, and the Library Staff is untiring in its efforts to procure needed material and information from other government services. To date, information needed from card runs has not been too successful. Service is excellent, but the amount of extraneous material which usually turns up on a subject in a card run is overwhelming. This situation will be corrected in time, as ORR analysts code material pertinent to their subjects.
- d. Division of Graphics, Nap Library. Timely and efficient response to each request has been the experience of personnel in F/M.
- e. Graphics Register. To date Ferrous Metallurgy Branch has had no occasion to use the services of Graphics Register for pictorial illustrations. On several instances, Graphic Register has prepared maps and charts as visual aids for studies and talks. Response to each request has been prompt and the illustrative material beautifully presented.

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1. Evaluation of Source

- a. Background material on the Iron and Steel Industry. The principal sources on background information on the iron and steel industry are technical publications, many of which are several years old, the Salt Mine report, re-25X1A8a ports from US industrialists and technicians who have been associated with the Soviet industry and the files of the Industrial Register. These sources contain facts on analyses of cros, extent of reserves, locations of installations, some plant descriptive data, etc, which are not affected by the passage of time. In the field of technical publications there remains a vast amount of material which has not been tapped. Libraries and other depositories, not only in the US but throughout the world, contain publications which are potential sources of much valuable factual data. The uncovering of these data remains a problem, both in the selection of pertinent material and in the procurement and translation of the subject matter for the use of the analyst. Reports of 25X1A83efectees, reports, attaché reports and State Department reports have also been useful, but less comprehensive, in building up a story on the Soviet industry.
 - b. Current material on the Iron and Steel Industry. Little factual data has been published on recent developments in the industry. Euch is released by the Soviets, but it is embiguous and colored by propaganda and little concrete information can be garnered from it. In spite of security restrictions in the USSR, there is an occasional slip. The outstanding example of such an error was contained in "Ferrous Letallurgy in the New Five Year Plan", by I. P. Bardin and N. P. Bannyi, which was published in 1947. This book provided a clue upon which a firm estimate of Soviet raw steel production was predicated by the Ferrous Letallurgy Branch.

The most valuable naterial being received on the USSR are the trade agreements and reports of actual shipments between the East and the West. 25X1A8a and State Department representatives have been conscientious and successful in procuring this type of naterial for our use. On trade among the Orbit countries, data is particularly weak, although has been able to procure 25X1A8a some very useful statistical naterial. USFA, at the height of its efficiency provided invaluable statistics on shipments through key transportation points, but in the past year, these reports have almost ceased.

25X1A8a was successful in procuring a US national who had broad and specific, recent knowledge on the production of coke in the USSR, the interrogation of whom provided invaluable facts on that industry to both the Ferrous retallurgy and Chemical Branches of D/I.

25X1X7 Cooperation with the was successful over a period of one
year, during which time there was an exchange of information and ideas on an
25X1A9anformal basis through
are extremely useful.

Prisoner of War reports, though voluminous, have not provided much factual information, other than locating installations.

FDB abstracts are valuable and often provide useful bits of information that are not available from other sources.

Foreign broadcast reports are useful and particularly timely. Speeches made in the USSR, for example, the Dulganin talk on the Anniversary of the Revolution, reach analysts in their entirety weeks before they could be received through regular mail channels.

The most fertile field for late, authoritative information on the Soviet iron and steel industry lies in the Hastern German scientists, specialists and technicians who were taken to the Soviet Union after World War II and whose contracts are expiring this year. Several hundred of these specialists have been reported to have already returned to Eastern Germany. Some of these individuals have since slipped over into Testern Germany. They should be located and thoroughly exploited by both not only for the Ferrous Metallurgy 25X1A8a Branch but for all other research organizations in CIA.

2. Evaluation of Services

a. Industrial Register. For plant information, Ferrous Netallurgy Dranch is dependent almost entirely upon the card and document files of IR. The weakness

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D. Non-Ferrous Metals and Minerals

On background material covering almost every phase of the mining industry we have found that the IR card files have been the greatest source of and 25X6A data. This is unevaluated material and much of it comes from other foreign sources, and in many cases, has to be carefully weighed as to reliability. Next to the above source is the large literature in Russian but which has become increasingly barren since the middle 1930's. However, much greater emphasis should be placed on this material when competent **■ has** 25X1A8a personnel is made available for such research. In this same period, gathered a great deal of information from American companies which furnished machinery and personnel to the Russians to bring their mineral industry up-to-date. Also a number of American and foreign engineers were taken into Russia under contract and their experience and notes are invaluable in many cases. Other sources have been the files of the Bureau of Mines, Geological Survey, Commerce Department and Tarrif Commission.

At the present time one of our chief sources of information are the reports covering current Russian newspapers and magazines. This source, together with the monitoring of foreign broadcasts from Russia and the Satellites, gives us a small amount of current information. In the re25X1A8aports from we get some indication of trade, both legitimate and clandestine, the only trouble being that this information is not consecutive that there are gaps in the statistics. Also when needed we have asked for information but in very few cases have we had satisfactory returns to our requirements. Of course, this is understandable on the time angle but we suspect that it is due to our low priority position on the scale of requirements.

State Department despatches and reports from the Moscow Embassy are helpful in evaluating on-the-spot reports and are of use. The same is true of Attache reports from Army. Navy, and Air, but none of these add much to our technical needs. We receive a large volume of prisoner-of-war reports but these are of little use as most of the prisoners-of-war are engaged in manual labor and have little opportunity to get much information about mines or plants.

One class of personnel that has not been exploited are the Russian defectors and returned German scientists and technicians. This is a vest storehouse of information on the industrial and military potential of the Soviets that has been neglected ever since the close of the war. This is due partly to lack of trained interrogators and translators but mostly to the subject not being recognized as of the greatest importance. These people over the years become scattered and impossible to find again.

We continually check our estimates and data with 25X1X7 and other foreign agencies. IAC agencies, specialists in other governmental agencies, ongineers who follow our field here and abroad, and with anyone we think is reliable and doing similar research. Our final conclusions are never fully verified and it is only from the experience and familiarity with the metal or minerals in question that our analysts arrive at what they consider a sound estimate.

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E. Special Commedities

The main courses of information on the fiscionable materials are the Atomic Energy Countssion and OSI. The Interials Division is currently in the midst of a disquesion concerning the functions of ORR in this field. Thus at this time there is very little information on these commodities in the Branch.

Considerable information is available in DAI files on most of the other ratorials in the Special Connedition Breach, but because of the shortage of personnel this natorial has not yet been fully emploited. It is believed that full emploitation of IR, Library, CSI, IAC agencies, other government agencies, and will be required to get the optimum results.

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F. PETROLEUM AND SOLID FUELS

- 25X1A8 solid Fuels Branches are FDD, Army intelligence reports and 25X1A2g
 25X1A8 reports. Navy intelligence and Airforce intelligence are of some value as primary sources of information. Intelligence reports 25X1X7 are helpful, but largely as a means of confirmation.
- 2. It is considered that the State Department peripheral reports and the exploitation of technical specialists represent excellent potential sources for increased exploitation. Further, extensive and specialized interrogation of defectees and PN's could in all probability supply information which would be extremely valuable in filling gaps in current information.
- 3. State Department Embassies reports, foreign broadcasts, US economic publications and US periodicals are not perticularly helpful on the USSR beyond some selective confirmation. However, the periodicals and the State Department Embassies reports in other areas are of value. Reports 25X1X7 from
- 4. Although there are various minor shortcomings in all sources of information, there is only one which the Petroleum and Solid Fuels Branches now consider worthy of concentrated attention. This is the exploitation of technical specialists, PW's and defectees. It is believed that a program which would provide not only for the interrogation of more such individuals, but interrogation by individuals specializing in various specific fields would be of considerable value. In the past reports the details as to the nature of facilities, commodities, procedures have been inadequate to permit analyses required.
 - 5. The library facilities are considered adequate and are of first importance in the work of the Petroleum and Solid Fuels Branches. The Industrial Register is helpful for preliminary surveys, but beyond this has not been found of material aid. The Map library has been found entirely adequate in all requests to date and it is believed it represents a possibility for much greater assistance as the work in Petroleum and Solid Fuels progresses to a more advanced stage. The Biographic Register and the Graphic Register have thus far been relatively unexploited.
 - 6. It is impractical to state the time required to fully explcit these facilities. As a specific subject or project is undertaken as part of the overall branch program, the available facilities are utilized to the extent that they can contribute. This time varies greatly in accordance with the project.